

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001844

A. CLASSIFICATION OF SUBJECT MATTER Int. CL ⁷ : A01K 67/027, C12N 15/00 According to <u>International Patent Classification (IPC)</u> or to both <u>national classification</u> and <u>IPC</u>		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) SEE BELOW Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SEE BELOW Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Databases: WPIDS, MEDLINE, CAPLUS Keywords: C5AR or CD88 or C5A() receptor or C5() anaphylatoxin()receptor; transgenic or animal()model or knock()in; human		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Gerard, N. P. et al., 1993, Human chemotaxis receptor genes cluster at 19q13.3-13.4. Characterisation of the human C5a receptor gene, <i>Biochemistry</i> , 32: 1243-1250. Whole document	1-41
A	Höpken, U. E. et al., 1996, The C5a chemoattractant receptor mediates mucosal defence to infection, <i>Nature</i> , 383: 86-89. Whole document	1-41
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the actual completion of the international search 11 February 2005	Date of mailing of the international search report 23 FEB 2005	
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer Sophina Calanni Telephone No : (02) 6283 2038	

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Köhl, J., 2001, Anaphylatoxins and infectious and non-infectious inflammatory diseases, <i>Molecular Immunology</i> , 38: 175-187. Whole document	1-41
A	Heller, T. et al., 1999, Selection of a C5a receptor antagonist from phage libraries attenuating the inflammatory response in immune complex disease and ischemia/reperfusion injury, <i>The Journal of Immunology</i> , 163: 985-994. Whole document	1-41
A	WO 1998/024893 A2 (Abgenix Inc.) 11 June 1998. Whole document	1-41

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001844

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
WO	1998/024893	AU	57022/98	CA	2273194	EP	0942968
		EP	1500329	KR	2000057347	US	2003070185
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 1, 4, 8, 14, 15 and 19 (partially)
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
The scope of the term *humanized C5aR* is so unclear that a meaningful search covering the entire scope of the term could not be carried out. The specification states that said term encompasses a non-human C5aR that has been modified so as to introduce or enhance at least one functional characteristic of native human C5aR. Therefore, the term potentially encompasses a large and indeterminate number of modifications that cannot be routinely determined or searched based on the present disclosure. Thus the present claims have been searched only so far as they relate to a transgenic non-human wherein the humanized C5aR is an endogenous C5aR wherein at least one extracellular or intracellular domain is replaced with the corresponding human C5aR domain.

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.